

FIG. 1

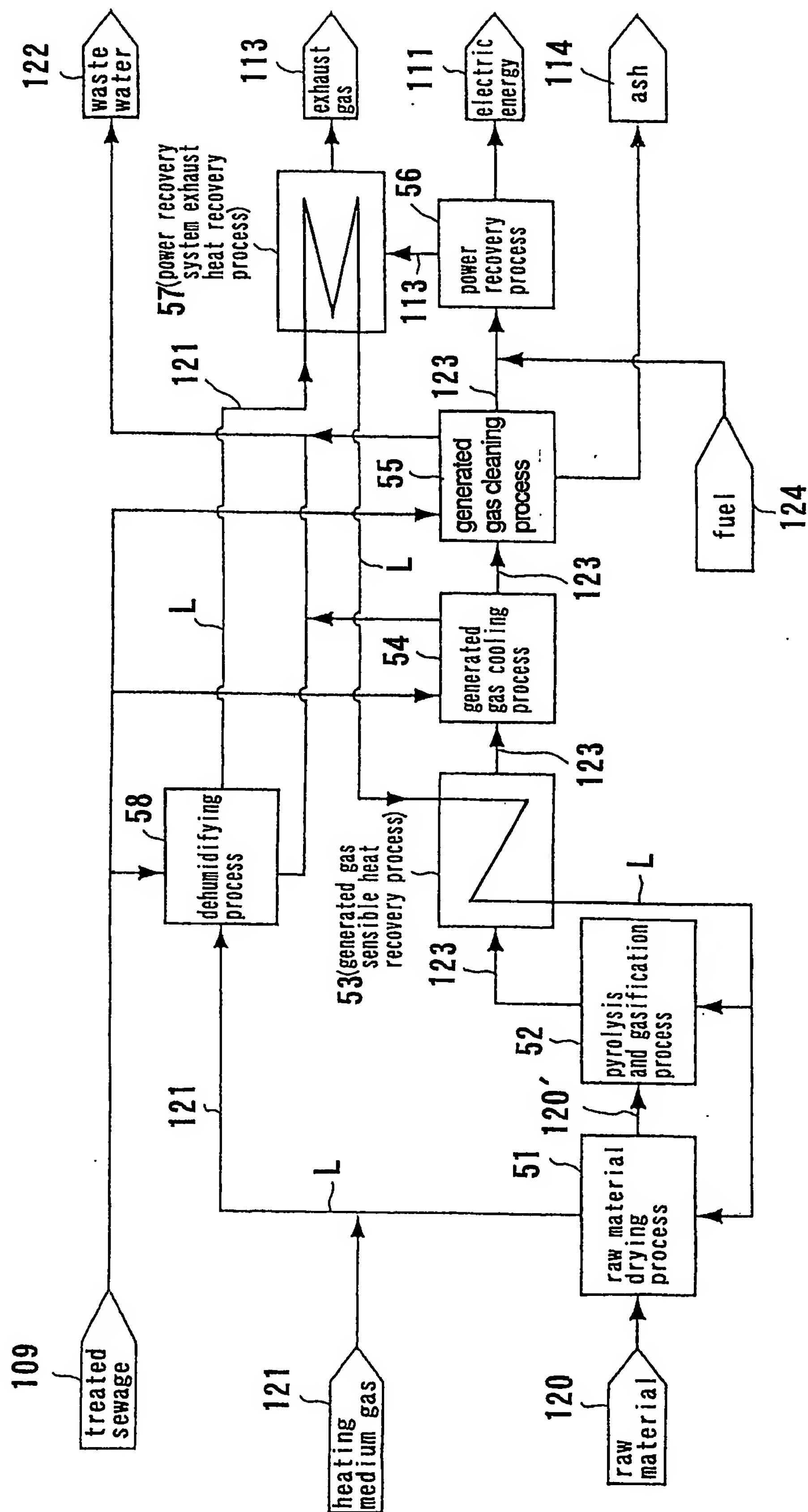
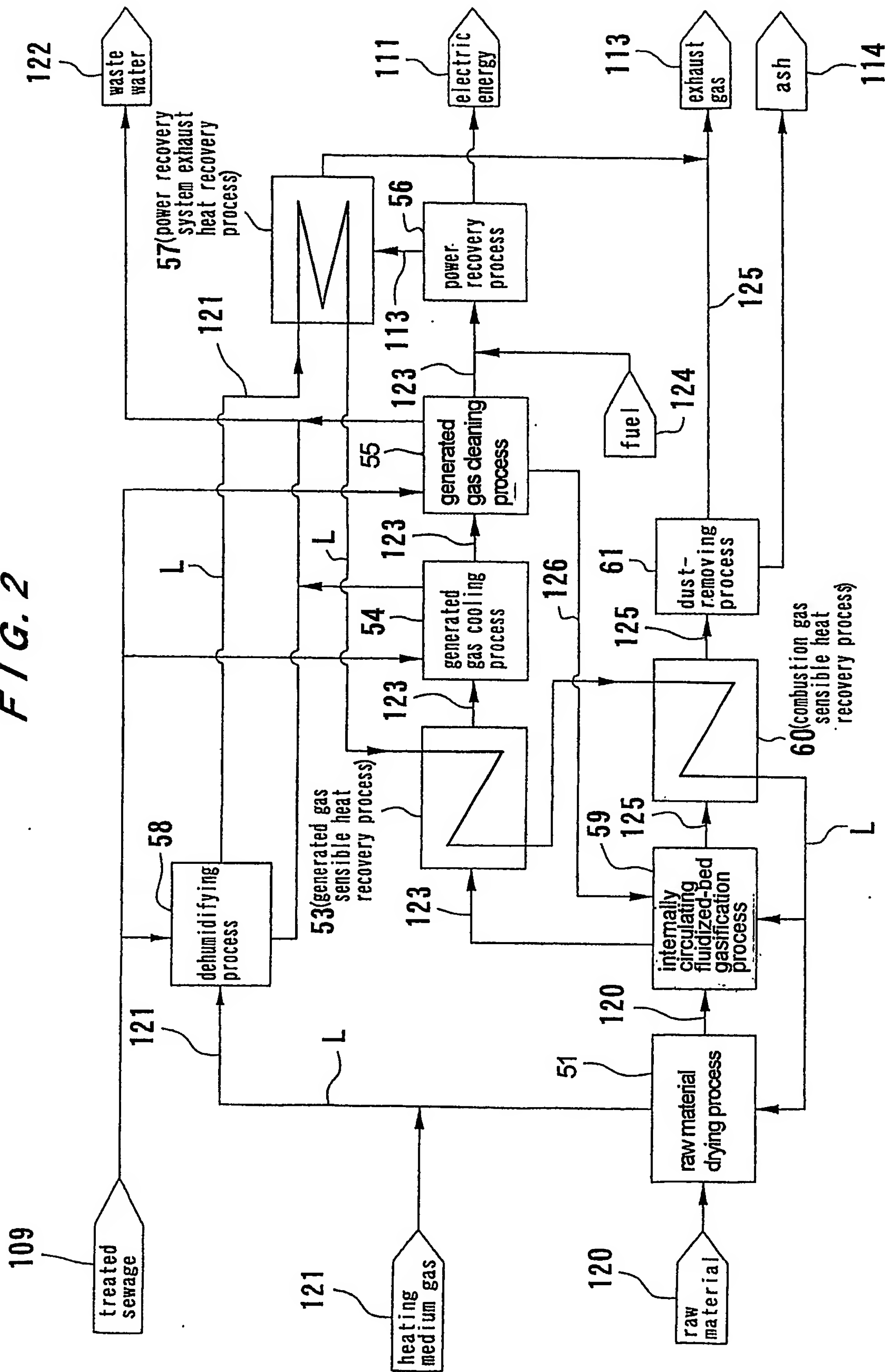


FIG. 2



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FIG. 3A

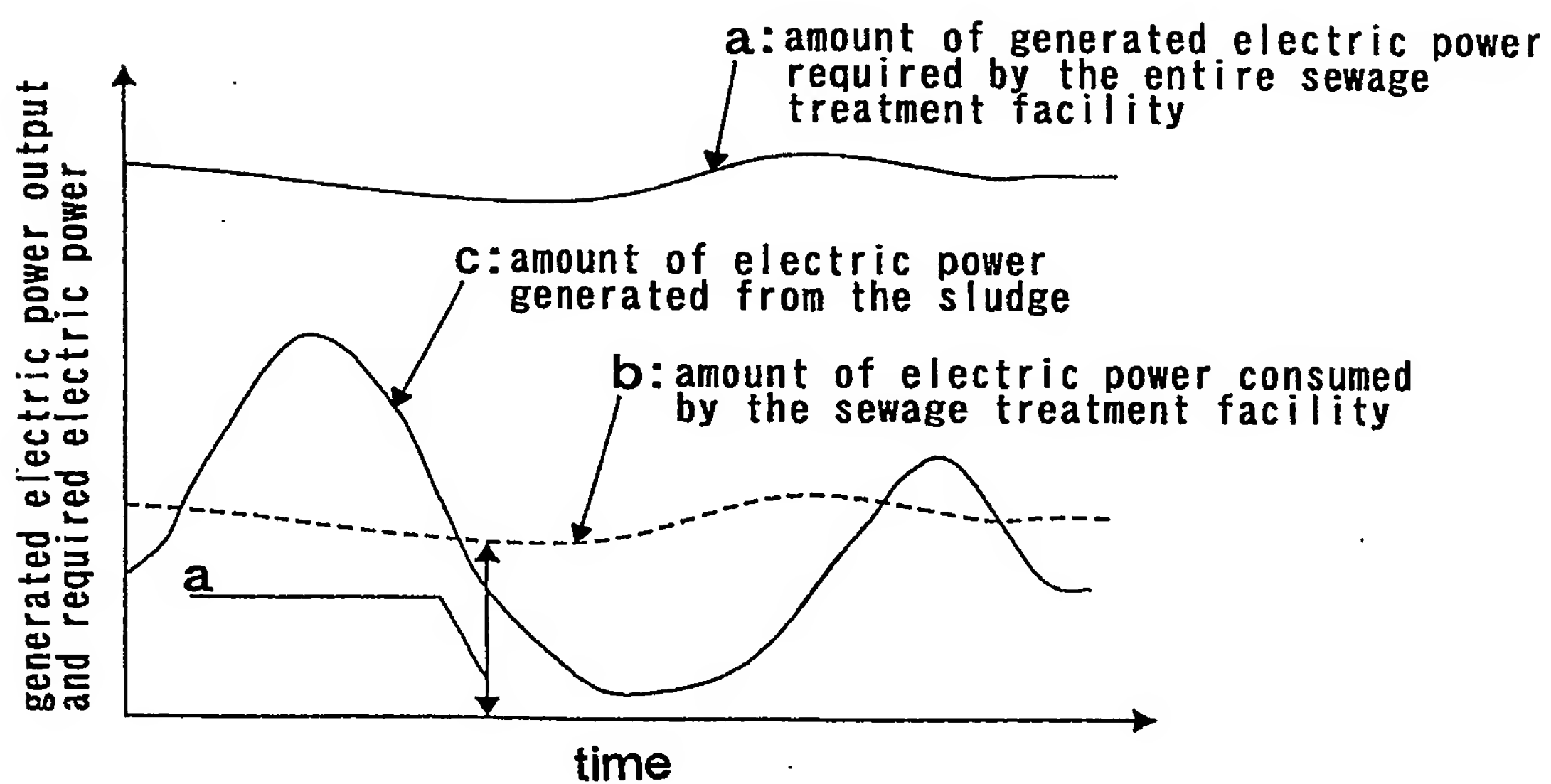


FIG. 3B

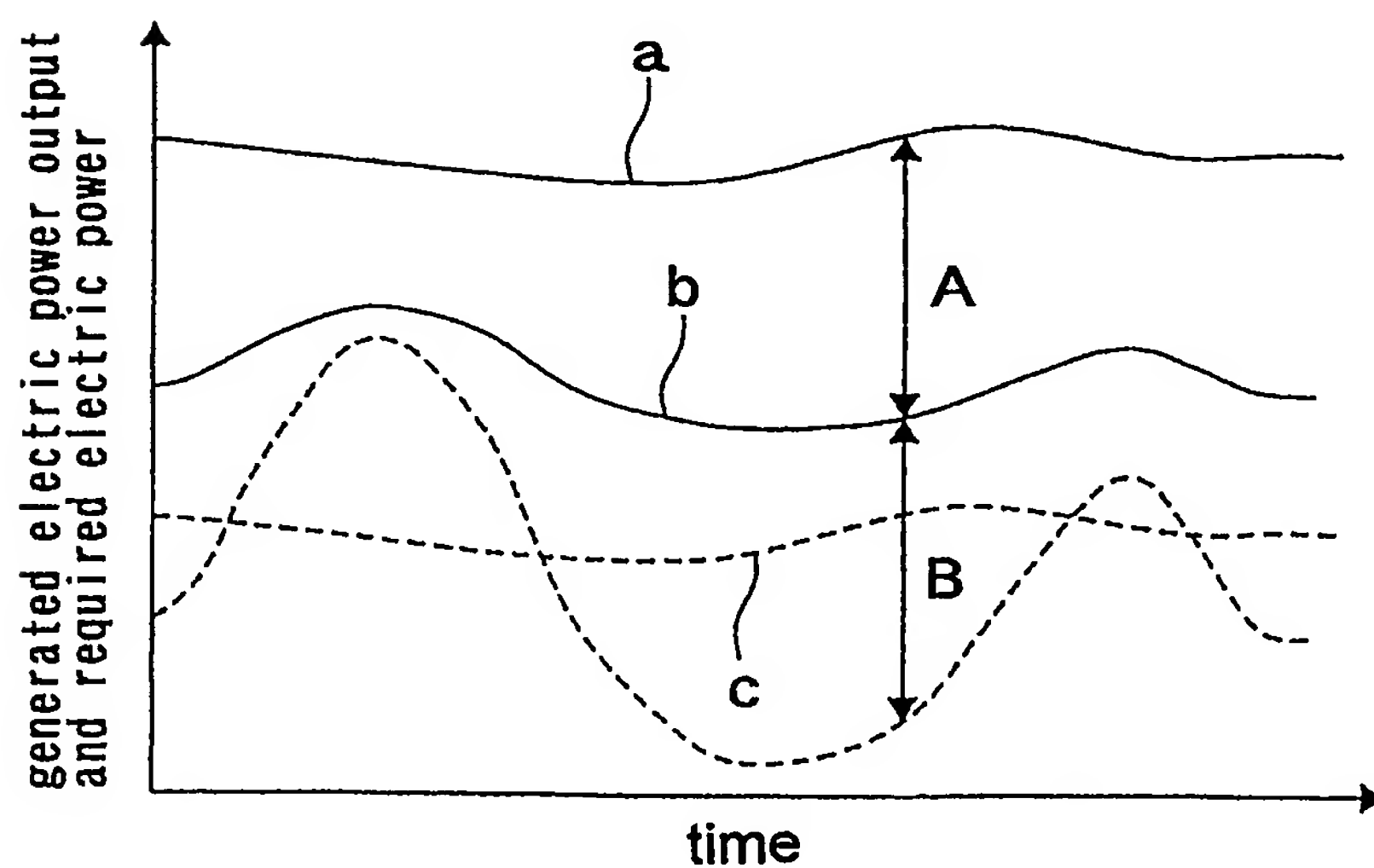
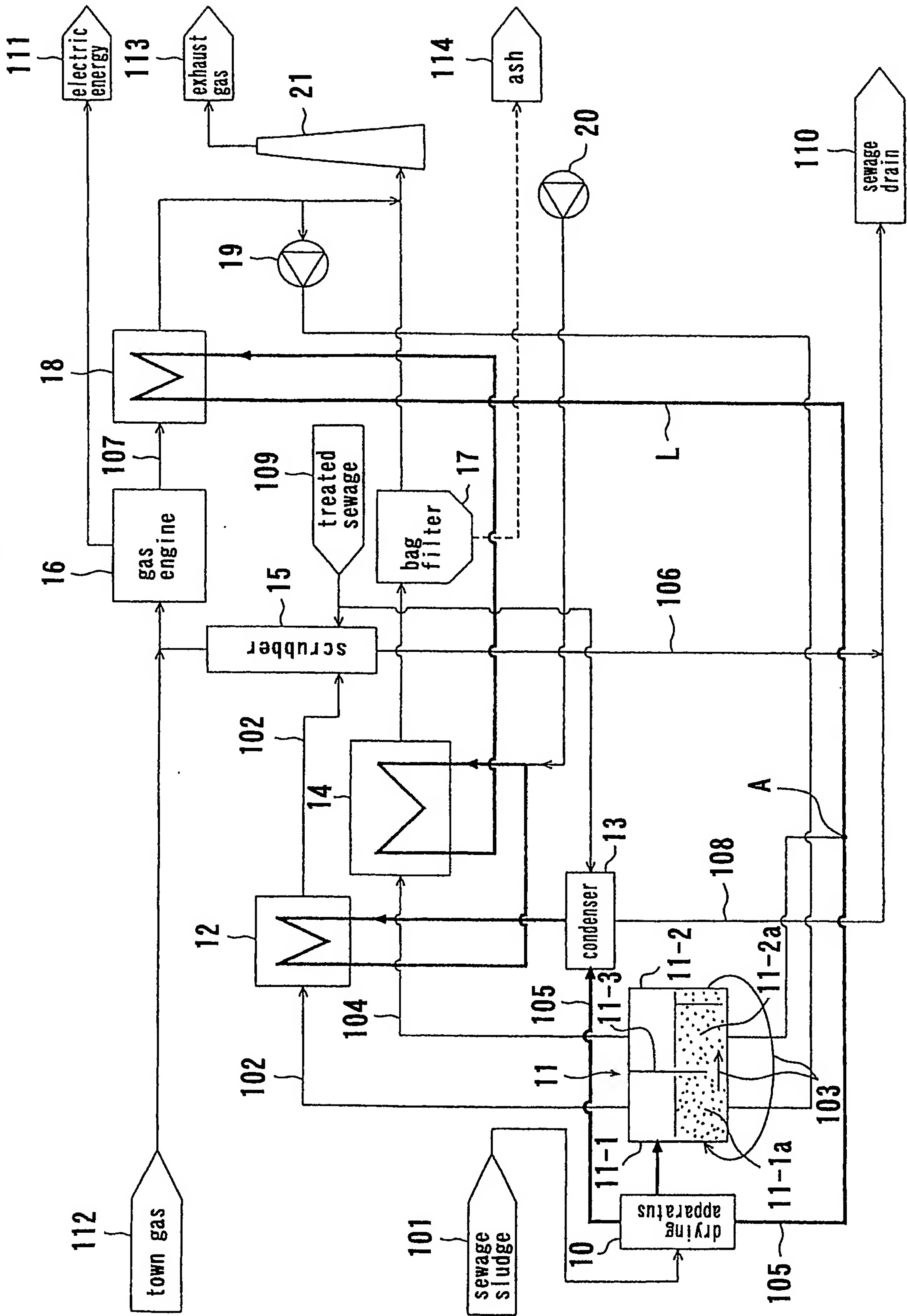


FIG. 4



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***FIG. 5***

water	%-wb	77.0%
carbon	%-wb	9.8%
hydrogen	%-wb	1.4%
oxygen	%-wb	5.6%
nitrogen	%-wb	1.2%
sulfur	%-wb	0.2%
ash	%-wb	4.8%
higher calorific value	MJ/kg	4.37
	kcal/kg	1043.0
lower calorific value	MJ/kg	2.12
	kcal/kg	505.4
lower calorific value (exclusive of a value of combusted hydrogen)	MJ/kg	2.43
	kcal/kg	581.0

FIG. 6

treatment amount of sewage sludge	t/d	300							
water contents of dried sewage sludge	%	15%	20%	25%	30%	35%	40%	45%	
higher calorific value	MJ/kg	16.1	15.2	14.2	13.3	12.3	11.4	10.4	
the same as above	kcal/kg	3,855	3,628	3,401	3,174	2,948	2,721	2,494	
lower calorific value	MJ/kg	14.6	13.6	12.6	11.6	10.6	9.6	8.6	
the same as above	kcal/kg	3,485	3,245	3,005	2,764	2,524	2,284	2,043	
gas engine electric power generation efficiency	%	35%	35%	35%	35%	35%	35%	35%	
gasification furnace raw material heat input (higher calorific value)	MW	15.2	15.2	15.2	15.2	15.2	15.2	15.2	
cold gas efficiency	%	64%	61%	58%	55%	50%	45%	39%	
generating-end output	MW	3.40	3.26	3.10	2.91	2.68	2.40	2.06	
required gas engine heat radiation recovery ratio	MW	61%	56%	50%	42%	32%	16%	-8%	



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FIG. 8

